

ANIMAL SCIENCES MAJOR – ANIMAL INDUSTRIES SPECIALIZATION (A.S.) INTERESTED IN ANIMAL SCIENCES MAJOR – ANIMAL INDUSTRIES SPECIALIZATION (B.S.)

This model plan of study is presented as a suggested path to graduate in 4 years with an Associate of Science Degree with a major in Animal Sciences Animal Industries specialization and a Bachelor of Science Degree in Agriculture with a major in Animal Sciences Animal Industries specialization. It is intended to be a useful guide; however, each student is unique and should review the Degree Requirements and work with their advisor to develop an individualized course plan that best fits their personal academic background and goals.

NOTE: This sheet should not be used in isolation. In order to graduate in a timely manner, students must consult their academic advisor on a regular basis.

Freshman Year (ATI)	Autumn Semester				Spring Semester			
Benchmarks	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
MATH 1148 should be completed by the end of this year.	ANIMSCI	2200.01	Introductory Animal Sciences	3	AEDECON	2001	Principles of Food and Resource Economics ^a	3
ENGLISH 1110 should be completed by the end of this year.	ANIMSCI	2200.03	Animal Systems	2	BIOLOGY	1113.01	Bio Sci: Energy Transfer & Development ^a	4-5
Chemistry requirement should be completed by the end of this year.	ANMLTEC or or	1201.01T 1201.02T 1202.07T	Expl. Equine Careers & Ind. Expl. Livestock Careers & Ind. Expl. Dairy Careers & Ind.	.5	ENGLISH	1110.01	First-Year English Comp. ^a	3
Begin to consider study abroad programs.	ANMLTEC	2200.02T	Intro to Animal Sciences Lab	1	GENED	1201	GE Launch Seminar	1
	CHEM	1110 or 1210	Elementary Chemistry General Chemistry I ^b	5			GE Hist. & Cultural Studies	3
	GENSTDS	1201.01T	College Orientation	.5			Electives	2
	MATH	1148	College Algebra ^a	4				
			Total:	16			Total:	16-17
Sophomore Year (ATI)	Autumn Semester				Spring Semester			
Benchmarks	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
All specialization courses should be completed by the end of this year.	ANMLTEC	3140T	Animal Anatomy and Physiology	4	AGRCOMM	3130	Oral Expression in Ag	3
Apply to graduate from ATI at least one semester before the semester of your graduation.	COMLDR	3537	Data Analysis in the Applied Sciences	3	ANMLTEC or 3150T 3157T		Livestock Genetic Improv. Dairy Cattle Genetic Improv.	3
Maintain at least a 2.0 cumulative GPA and graduate with Associate of Science Degree			GE Lit, Vis and Perf Arts	3			GE R.E. & G. Diversity	3
			Electives	5			Electives	7
			Total:	15			Total:	16
Total credit hours for Associate of Science Degree: 63-64								
Junior Year (Columbus)	Autumn Semester				Spring Semester			
Benchmarks	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
Internship should be completed by end of this summer.	ANIMSCI	2000	Animal Handling	2	ANIMSCI	3170	Animal Health I	2
Half of minor should be completed by the end of the year.	ANIMSCI	2367	Animals in Society	3			GE Theme Choice #1 ^a	3
Apply to graduate from Columbus at least three semesters before the semester of your graduation.	ANIMSCI	3130	Principles of Animal Nutrition	3			Laboratory Option #1	.5
			GE Citizenship #1 ^c	3-4			Laboratory Option #2	.5
			Minor Elective	3			Minor Course	3
			Physiology Option	2-3			Minor Course	3
			Total:	16-18			Production Course #1	4
							Total:	16
Senior Year (Columbus)	Autumn Semester				Spring Semester			
Benchmarks	Department	Course #	Course Name	Hours	Department	Course #	Course Name	Hours
Graduate with Bachelor of Science Degree.	ANIMSCI	3180	Intro. Animal Welfare	2	GENED	4001	GE Reflection	1
Maintain at least a 2.0 GPA in the major, minor, and cumulative.	ANIMSCI and FAES	3191	Internship	2			Major elective (4000 level or higher)	3
			GE Theme Choice #2 (or open elective)	3			Major elective	3
			GE Citizenship #2 ^c	3			Minor Course/Open Elective	2-3
			Production Course #2	3-4			Minor Course	3
			Open Elective	1-2				
			Total:	14-16			Total:	12-13
Total credit hours for Bachelor of Science Degree: 121								

^a One possible course from approved GE list or major requirement that has multiple options, as outlined in corresponding Degree Requirements document.

^b Chem 1210 is open to students with one unit of high school chemistry and Math Placement Level L or M; or a grade of C- or above in Math 1130, 1131, 1148, 1150 or above.

^c Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ✦ symbol.

**ANIMAL SCIENCES MAJOR – ANIMAL INDUSTRIES SPECIALIZATION (A.S.) INTERESTED IN ANIMAL SCIENCES
MAJOR – ANIMAL INDUSTRIES SPECIALIZATION (B.S.)**

This advising sheet is for Ohio State ATI students that wish to earn both an Associate of Science (A.S.) Degree with an Animal Sciences major and specialization in Animal Industries and a Bachelor of Science (B.S.) Degree with a major in Animal Sciences and specialization in Animal Industries. The tables below outline the complete degree requirements to earn a B.S. in Agriculture with a major in Animal Sciences and specialization in Animal Industries. The underlined courses are those that may also fulfill a requirement for the A.S. Animal Sciences major with a specialization in Animal Industries. These courses can count toward both degree programs simultaneously.

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Table 1. Degree Requirements			
Subject	Course Options	Hours	✓
GE Launch Seminar	<u>GENED 1201</u>	1	
Writing and Information Literacy	<u>ENGLISH 1110.01</u>	3	
Mathematical & Quantitative Reasoning/Data Analysis	<u>MATH 1148</u>	4	
Literary, Visual and Performing Arts	<u>Student Choice</u>	3	
Historical & Cultural Studies	<u>Student Choice</u>	3	
Natural Science	<u>BIOLOGY 1113.01</u>	4	
Social & Behavioral Sciences	<u>AEDECON 2001</u> or ECON 2001	3	
Race, Ethnic and Gender Diversity	<u>Student Choice</u>	3	
Theme: Citizenship for a Diverse & Just World ^a	Student Choice	4-6	
Theme: Student Choice ^a	Student Choice	4-6	
GE Reflection	GENED 4001	1	
Survey Courses	<u>GENSTDS 1201.01T*</u> OR FAES 1100 and <u>ANMLTEC 1201.01T*</u> or <u>1201.02T*</u> OR ANIMSCI 1100	.5 .5	
Oral Expression	<u>AGRCOMM 3130</u> or COMM 2110	3	
Additional Science	<u>CHEM 1110</u> or <u>1210</u>	5	
Internship	ANIMSCI and FAES 3191 or ANMLTEC 3191.02T*	2	
Minor ^b	Requirements vary with minor.	12-15	
Major	See Table 2.	40	
Major Supporting Coursework	Choose a course from the following list (courses will not double count in the minor equivalent): BIOLOGY 1114, MICROBIO 4000.01 or .02, PHYSICS 1200, CHEM 1220, or MOLGEN 4500	3-5	
Open Electives	Consult advisor for selection.	1-12	
Minimum Total Credit Hours		121	

Table 2. Major Requirements		
Course(s)	Hours	✓
ANIMSCI 2000 Animal Handling	2	
ANIMSCI 2200.01 & 2200.02 OR <u>ANIMSCI 2200.01 & ANMLTEC 2200.02T*</u> OR <u>ANMLTEC 2200T*</u> & <u>2300T*</u> Intro. Animal Sciences w/ Lab	4	
<u>ANIMSCI 2200.03</u> Animal Systems	2	
ANIMSCI 2260 Data Analysis and Interpretation for Decision Making	3	
ANIMSCI 2367 Animals in Society	3	
ANIMSCI 3130 Principles of Animal Nutrition	3	
<u>ANMLTEC 3140T*</u> or ANIMSCI 3140 Principles of Animal Physiology	3 ^c	
ANIMSCI 3150 Principles of Genetic Improvement OR <u>ANMLTEC 3150T*</u> Livestock Genetic Improvement or <u>ANMLTEC 3157T*</u> Dairy Cattle Genetic Improvement	3	
ANIMSCI 3170 Animal Health 1 OR <u>ANMLTEC 3170T*</u> Principles of Livestock Health ^c	2 ^c	
ANIMSCI 3180 Animal Welfare	2	
Laboratory Requirement (select two options): ANIMSCI 3420 Animal Laboratory Research Methods (.5) ANIMSCI 3430 Animal Nutrition Laboratory (.5) ANIMSCI 3440 Animal Physiology Laboratory (.5) ANIMSCI 3470 Animal Health Laboratory (.5) ANIMSCI 3480 Animal Welfare Laboratory (.5)	1	
Physiology Requirement (select one option): ANIMSCI 3100 Growth and Development (3) ANIMSCI 3110 Introduction to Meat Science (3) ANIMSCI 3147 Milk Secretion (2) ANIMSCI 3160 Reproductive Physiology (3)	2-3	
Production Course 1 Options (one from the following): ANIMSCI 4001 Equine Production or ANIMSCI 4002.01 & 4002.02 Beef Cattle Prod. & Mgmt./Lab or ANIMSCI 4003.01 & 4003.02 Swine Production/Lab or ANIMSCI 4004.01 & 4004.02 Small Rum & Pseudo Rum/Lab or ANIMSCI 4005 Companion Animal Biology & Behavior or ANIMSCI 4006.01 & 4006.02 Poultry & Avian Mgmt./Lab or ANIMSCI 4007 Dairy Herd Management	4	
Production Course 2 Options (one from the following): <u>ANMLTEC 2202T*</u> ^d AND <u>3402T*</u> or <u>ANMLTEC 3151T*</u> AND <u>3161T*</u> or <u>ANMLTEC 2202T*</u> ^d AND <u>3404T*</u> or <u>ANMLTEC 2603T*</u> AND <u>3403T*</u> ANIMSCI 5100 Advanced Growth & Development (3) ANIMSCI 5530 Comparative Animal Nutrient Metabolism (3) MEATSCI 4510 Processed Meats (3) Additional selection from Production Course 1 lecture options Education Abroad ^e Animal Science Judging Experience ^f	3-4	
Major Electives ^g	13	
Total Major Credit Hours	50-52	

Note: A capital OR separates a pair of *equivalent* courses, a lowercase or separates a choice between *different* courses that fulfill the same requirement

Additional Bachelor's Degree Requirements:

1. A 2.00 cumulative CPHR is required as well as a 2.00 CPHR in the major and minor coursework.
2. Students must complete a minimum of 30 credit hours at The Ohio State University with at least 12 in the department in Columbus offering the major.
3. Applications to graduate must be submitted at least three semesters in advance.

^a Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ✦ symbol.

^b Cannot select as a minor in Equine Science, Animal Nutrition, Dairy Science, Human and Animal Interactions, or Animal Science.

^c Extra credit hour(s) from the ATI courses will count toward the major electives

^d If students complete ANMLTEC 3404T in addition to 2202T & 3402T, they will receive credit for **both** ANIMSCI 4002 and 4004.

^e Two short-term study abroad experiences include a combination of two courses from ANIMSCI 3797.01 or 3797.03 or 3797.04, or 3797.07 or 5797.05.

^f Participation in two different disciplinary, intercollegiate animal science judging experiences. Requires registration in ANIMSCI 3488 or equivalent.

^g See complete list of options on the CFAES website <https://students.cfaes.ohio-state.edu/academics/undergraduate/majors-and-degrees>

* courses are only offered at the Wooster (ATI) Campus